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SEQUENCE LISTING PART

<110> The University of Sydney

<120> Protease Susceptibility

<130> Weiss Protease

<140>

<141>

<160> 74

<170> PatentIn Ver. 2.0

<210> 1

<211> 2106

<212> DNA

<213> Homo sapiens

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- 2 -

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<212> DNA

<213> Homo sapiens

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<212> PRT  
<213> Homo sapiens

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<400> 4

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Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly  
35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala  
50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Ala Tyr Lys Ala Ala  
65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly  
85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro  
100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val  
115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro  
130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe  
145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val  
165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly  
180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly  
195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val  
210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe

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225	230	235	240
Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val			
245	250	255	
Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val			
260	265	270	
Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala			
275	280	285	
Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly			
290	295	300	
Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val			
305	310	315	320
Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala			
325	330	335	
Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala			
340	345	350	
Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile			
355	360	365	
Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly			
370	375	380	
Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val			
385	390	395	400
Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln			
405	410	415	
Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala			
420	425	430	
Ala Ala Ala Ala Lys Ala Ala Lys Ala Ala Gln Phe Gly Leu Val			
435	440	445	
Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly			
450	455	460	
Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly			
465	470	475	480
Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly			

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485

490

495

Gly Val Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala  
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Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly  
 515 520 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly  
 530 535 540

Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu  
 545 550 555 560

Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser  
 565 570 575

Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly  
 580 585 590

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly  
 595 600 605

Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly  
 610 615 620

Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala  
 625 630 635 640

Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly  
 645 650 655

Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly  
 660 665 670

Ile Pro Pro Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly  
 675 680 685

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val  
 690 695 700

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala  
 705 710 715 720

Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys  
 725 730

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&lt;210&gt; 5

&lt;211&gt; 698

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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Tyr	Pro	Gly	Ala	Gly	Leu	Gly	Ala	Leu	Gly	Gly	Ala	Leu	Gly	Pro
	20				25						30			

Gly	Gly	Lys	Pro	Leu	Lys	Pro	Val	Pro	Gly	Gly	Leu	Ala	Gly	Ala	Gly
	35				40						45				

Leu	Gly	Ala	Gly	Leu	Gly	Ala	Phe	Pro	Ala	Val	Thr	Phe	Pro	Gly	Ala
	50				55					60					

Leu	Val	Pro	Gly	Gly	Val	Ala	Asp	Ala	Ala	Ala	Tyr	Lys	Ala	Ala
	65				70				75		80			

Lys	Ala	Gly	Ala	Gly	Leu	Gly	Gly	Val	Pro	Gly	Val	Gly	Gly	Leu	Gly
					85				90			95			

Val	Ser	Ala	Gly	Ala	Val	Val	Pro	Gln	Pro	Gly	Ala	Gly	Val	Lys	Pro
					100				105			110			

Gly	Lys	Val	Pro	Gly	Val	Gly	Leu	Pro	Gly	Val	Tyr	Pro	Gly	Gly	Val
							115		120			125			

Leu	Pro	Gly	Ala	Arg	Phe	Pro	Gly	Val	Gly	Val	Leu	Pro	Gly	Val	Pro
							130		135			140			

Thr	Gly	Ala	Gly	Val	Lys	Pro	Lys	Ala	Pro	Gly	Val	Gly	Gly	Ala	Phe
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Ala	Gly	Ile	Pro	Gly	Val	Gly	Pro	Phe	Gly	Gly	Pro	Gln	Pro	Gly	Val
							165		170			175			

Pro	Leu	Gly	Tyr	Pro	Ile	Lys	Ala	Pro	Lys	Leu	Pro	Gly	Gly	Tyr	Gly
					180				185			190			

Leu	Pro	Tyr	Thr	Thr	Gly	Lys	Leu	Pro	Tyr	Gly	Tyr	Gly	Pro	Gly	Gly
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Val	Ala	Gly	Ala	Ala	Gly	Lys	Ala	Gly	Tyr	Pro	Thr	Gly	Thr	Gly	Val
						210		215			220				

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Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe			
225	230	235	240
Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val			
245	250	255	
Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val			
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Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala			
275	280	285	
Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly			
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Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile			
355	360	365	
Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly			
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Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val			
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450	455	460	
Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly			
465	470	475	480

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Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly  
485 490 495

Gly Val Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala  
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Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly  
515 520 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly  
530 535 540

Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala  
545 550 555 560

Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val  
565 570 575

Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val  
580 585 590

Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala  
595 600 605

Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu  
610 615 620

Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile  
625 630 635 640

Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu  
645 650 655

Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala  
660 665 670

Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys  
675 680 685

Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys  
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<210> 6  
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<212> PRT  
<213> Homo sapiens

- 10 -

&lt;400&gt; 6

Gly	Gly	Val	Pro	Gly	Ala	Val	Pro	Gly	Gly	Val	Pro	Gly	Gly	Val	Phe
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Tyr	Pro	Gly	Ala	Gly	Phe	Gly	Ala	Val	Pro	Gly	Gly	Val	Ala	Asp	Ala
	20				25								30		

Ala	Ala	Ala	Tyr	Lys	Ala	Ala	Lys	Ala	Gly	Ala	Gly	Leu	Gly	Gly	Val
				35			40					45			

Pro	Gly	Val	Gly	Gly	Leu	Gly	Val	Ser	Ala	Gly	Ala	Val	Val	Pro	Gln
		50			55							60			

Pro	Gly	Ala	Gly	Val	Lys	Pro	Gly	Lys	Val	Pro	Gly	Val	Gly	Leu	Pro
		65			70				75					80	

Gly	Val	Tyr	Pro	Gly	Phe	Gly	Ala	Val	Pro	Gly	Ala	Arg	Phe	Pro	Gly
				85				90				95			

Val	Gly	Val	Leu	Pro	Gly	Val	Pro	Thr	Gly	Ala	Gly	Val	Lys	Pro	Lys
				100				105				110			

Ala	Pro	Gly	Val	Gly	Gly	Ala	Phe	Ala	Gly	Ile	Pro	Gly	Val	Gly	Pro
				115				120				125			

Phe	Gly	Gly	Pro	Gln	Pro	Gly	Val	Pro	Leu	Gly	Tyr	Pro	Ile	Lys	Ala
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Pro	Lys	Leu	Pro	Gly	Gly	Tyr	Gly	Leu	Pro	Tyr	Thr	Thr	Gly	Lys	Leu
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Pro	Tyr	Gly	Tyr	Gly	Pro	Gly	Gly	Val	Ala	Gly	Ala	Ala	Gly	Lys	Ala
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Gly	Tyr	Pro	Thr	Gly	Thr	Gly	Val	Gly	Pro	Gln	Ala	Ala	Ala	Ala	Ala
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Ala	Ala	Lys	Ala	Ala	Ala	Lys	Phe	Gly	Ala	Gly	Ala	Ala	Gly	Phe	Gly
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Ala	Val	Pro	Gly	Val	Gly	Gly	Ala	Gly	Val	Pro	Gly	Val	Pro	Gly	Ala
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Ile	Pro	Gly	Ile	Gly	Gly	Ile	Ala	Gly	Val	Gly	Thr	Pro	Ala	Ala	Ala
	225				230				235			240			

Ala	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Ala	Ala	Ala	
				245				250			255				

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Gly	Leu	Val	Pro	Gly	Gly	Pro	Gly	Phe	Gly	Pro	Gly	Val	Val	Gly	Val
260						265							270		
Pro	Gly	Phe	Gly	Ala	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Ala	Gly	Ile
275						280							285		
Pro	Val	Val	Pro	Gly	Ala	Gly	Ile	Pro	Gly	Ala	Ala	Gly	Phe	Gly	Ala
290						295						300			
Val	Ser	Pro	Glu	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr
305						310						315			320
Gly	Ala	Arg	Pro	Gly	Val	Gly	Val	Gly	Ile	Pro	Thr	Tyr	Gly	Val	
325						330						335			
Gly	Ala	Gly	Gly	Phe	Pro	Gly	Phe	Gly	Val	Gly	Val	Gly	Gly	Ile	Pro
340						345						350			
Gly	Val	Ala	Gly	Val	Pro	Ser	Val	Gly	Gly	Val	Pro	Gly	Val	Gly	Gly
355						360						365			
Val	Pro	Gly	Val	Gly	Ile	Ser	Pro	Glu	Ala	Gln	Ala	Ala	Ala	Ala	Ala
370						375						380			
Lys	Ala	Ala	Lys	Tyr	Gly	Val	Gly	Thr	Pro	Ala	Ala	Ala	Ala	Ala	Lys
385						390						395			400
Ala	Ala	Ala	Lys	Ala	Ala	Gln	Phe	Gly	Leu	Val	Pro	Gly	Val	Gly	Val
405						410						415			
Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val
420						425						430			
Gly	Leu	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro
435						440						445			
Gly	Val	Gly	Val	Ala	Pro	Gly	Ile	Gly	Pro	Gly	Gly	Val	Ala	Ala	Ala
450						455						460			
Ala	Lys	Ser	Ala	Ala	Lys	Val	Ala	Ala	Lys	Ala	Gln	Leu	Arg	Ala	Ala
465						470						475			480
Ala	Gly	Leu	Gly	Ala	Gly	Ile	Pro	Gly	Leu	Gly	Val	Gly	Val	Gly	Val
485						490						495			
Pro	Gly	Leu	Gly	Val	Gly	Ala	Gly	Val	Pro	Gly	Leu	Gly	Val	Gly	Ala
500						505						510			

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Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala Leu Ala Ala Ala Lys  
 515                    520                    525

Ala Ala Lys Tyr Gly Ala Val Pro Gly Val Leu Gly Gly Leu Gly Ala  
 530                    535                    540

Leu Gly Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala Gly Pro Ala  
 545                    550                    555                    560

Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly  
 565                    570                    575

Leu Val Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly Gly Leu Gly  
 580                    585                    590

Val Pro Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala Ala Ala Ala  
 595                    600                    605

Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val Leu Gly Gly  
 610                    615                    620

Ala Gly Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro Gly Phe Gly  
 625                    630                    635                    640

Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys Ala Cys Gly  
 645                    650                    655

Arg Lys Arg Lys  
 660

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<400> 7  
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 1                    5                    10                    15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro  
 20                    25                    30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly  
 35                    40                    45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala

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50

55

60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Ala Tyr Lys Ala Ala  
 65                   70                   75                   80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly  
 85                   90                   95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro  
 100               105               110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val  
 115               120               125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro  
 130               135               140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe  
 145               150               155               160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val  
 165               170               175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly  
 180               185               190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly  
 195               200               205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val  
 210               215               220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe  
 225               230               235               240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val  
 245               250               255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val  
 260               265               270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala  
 275               280               285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly  
 290               295               300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val

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305	310	315	320
Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala			
325	330	335	
Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala			
340	345	350	
Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile			
355	360	365	
Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly			
370	375	380	
Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val			
385	390	395	400
Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln			
405	410	415	
Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala			
420	425	430	
Ala Ala Ala Ala Lys Ala Ala Lys Ala Ala Gln Phe Gly Leu Val			
435	440	445	
Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly			
450	455	460	
Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly			
465	470	475	480
Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly			
485	490	495	
Gly Val Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala			
500	505	510	
Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly			
515	520	525	
Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly			
530	535	540	
Leu Gly Val Gly Ala Gly Cys Ser Gly Phe Arg Cys Trp Arg Gly Arg			
545	550	555	560
Arg Cys Thr Ser Phe Pro Val Ser Arg Thr Ala			

15

565

570

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Lys Ala Pro Gly Val Gly Gly Ala Phe  
1 5

<210> 9  
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<400> 9  
Arg Ala Ala Ala Gly Leu Gly  
1 5

<210> 10  
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Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp  
1 5 10

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<400> 11  
Lys Ala Ala Lys Ala Gly Ala Gly Leu  
1 5

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<400> 12  
Lys Ala Gly Ala Gly Leu Gly Gly Val  
1 5

<210> 13  
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<400> 13  
Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala  
1 5 10

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Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val  
1 5 10

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Lys Ser Ala Ala Lys Val Ala Ala Lys Ala Gln  
1 5 10

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<400> 16  
Arg Ser Leu Ser Pro Glu Leu Arg Glu  
1 5

<210> 17  
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- 17 -

<213> Homo sapiens

<400> 17

Gly Gln Leu Arg Ala Ala Ala Gly  
1 5

<210> 18

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<212> PRT

<213> Homo sapiens

<400> 18

Val Gln Leu Arg Ala Ala Ala Gly  
1 5

<210> 19

<211> 8

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Ile Gln Leu Arg Ala Ala Ala Gly  
1 5

<210> 20

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<213> Homo sapiens

<400> 20

Leu Gln Leu Arg Ala Ala Ala Gly  
1 5

<210> 21

<211> 8

<212> PRT

<213> Homo sapiens

<400> 21

Ala Asn Leu Arg Ala Ala Ala Gly  
1 5

<210> 22

- 18 -

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<400> 22  
Ala Gly Leu Arg Ala Ala Ala Gly  
1 5

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Ala Val Leu Arg Ala Ala Ala Gly  
1 5

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Ala Ser Leu Arg Ala Ala Ala Gly  
1 5

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<400> 25  
Ala Gln Gly Arg Ala Ala Ala Gly  
1 5

<210> 26  
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<400> 26  
Ala Gln Val Arg Ala Ala Ala Gly  
1 5

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Ala Gln Ile Arg Ala Ala Ala Gly  
1 5

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<400> 28  
Ala Gln Ala Arg Ala Ala Ala Gly  
1 5

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Ala Gln Leu Arg Gly Ala Ala Gly  
1 5

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Ala Gln Leu Arg Val Ala Ala Gly  
1 5

<210> 31  
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<400> 31  
Ala Gln Leu Arg Ile Ala Ala Gly

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1 5

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Ala Gln Leu Arg Leu Ala Ala Gly  
1 5

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Ala Gln Leu Arg Ala Gly Ala Gly  
1 5

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<400> 34  
Ala Gln Leu Arg Ala Val Ala Gly  
1 5

<210> 35  
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<400> 35  
Ala Gln Leu Arg Ala Ile Ala Gly  
1 5

<210> 36  
<211> 8  
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<400> 36

Ala Gln Leu Arg Ala Leu Ala Gly

1 5

<210> 37

<211> 8

<212> PRT

<213> Homo sapiens

<400> 37

Ala Gln Leu Arg Ala Ala Gly Gly

1 5

<210> 38

<211> 8

<212> PRT

<213> Homo sapiens

<400> 38

Ala Gln Leu Arg Ala Ala Val Gly

1 5

<210> 39

<211> 8

<212> PRT

<213> Homo sapiens

<400> 39

Ala Gln Leu Arg Ala Ala Ile Gly

1 5

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<400> 40

Ala Gln Leu Arg Ala Ala Leu Gly

1 5

<210> 41

<211> 8

<212> PRT

- 22 -

<213> Homo sapiens

<400> 41

Ala Gln Leu Arg Ala Ala Ala Ala  
1 5

<210> 42

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<212> PRT

<213> Homo sapiens

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Ala Gln Leu Arg Ala Ala Ala Ile  
1 5

<210> 43

<211> 8

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<213> Homo sapiens

<400> 43

Ala Gln Leu Arg Ala Ala Ala Val  
1 5

<210> 44

<211> 8

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<213> Homo sapiens

<400> 44

Ala Gln Leu Arg Ala Ala Ala Leu  
1 5

<210> 45

<211> 8

<212> PRT

<213> Homo sapiens

<400> 45

Val Gly Gly Ala Leu Ala Ala Ala  
1 5

<210> 46

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<400> 46  
Gly Pro Gly Ala Leu Ala Ala Ala  
1 5

<210> 47  
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<400> 47  
Ile Pro Gly Ala Leu Ala Ala Ala  
1 5

<210> 48  
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<400> 48  
Leu Pro Gly Ala Leu Ala Ala Ala  
1 5

<210> 49  
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Ala Pro Gly Ala Leu Ala Ala Ala  
1 5

<210> 50  
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<400> 50  
Val Pro Gly Ala Leu Ala Ala Ala  
1 5

- 24 -

<210> 51  
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Val Pro Ile Ala Leu Ala Ala Ala  
1 5

<210> 52  
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Val Pro Leu Ala Leu Ala Ala Ala  
1 5

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Val Pro Val Ala Leu Ala Ala Ala  
1 5

<210> 54  
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Val Pro Gly Ala Gly Ala Ala Ala  
1 5

<210> 55  
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<400> 55  
Val Pro Gly Ala Ile Ala Ala Ala

- 25 -

1

5

<210> 56

<211> 8

<212> PRT

<213> Homo sapiens

<400> 56

Val Pro Gly Ala Ala Ala Ala Ala  
1 5

<210> 57

<211> 8

<212> PRT

<213> Homo sapiens

<400> 57

Val Pro Gly Ala Val Ala Ala Ala  
1 5

<210> 58

<211> 8

<212> PRT

<213> Homo sapiens

<400> 58

Val Pro Gly Ala Leu Gly Ala Ala  
1 5

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<213> Homo sapiens

<400> 59

Val Pro Gly Ala Leu Ile Ala Ala  
1 5

<210> 60

<211> 8

<212> PRT

<213> Homo sapiens

- 26 -

<400> 60

Val Pro Gly Ala Leu Leu Ala Ala  
1 5

<210> 61

<211> 8

<212> PRT

<213> Homo sapiens

<400> 61

Val Pro Gly Ala Leu Val Ala Ala  
1 5

<210> 62

<211> 8

<212> PRT

<213> Homo sapiens

<400> 62

Val Pro Gly Ala Leu Ala Gly Ala  
1 5

<210> 63

<211> 8

<212> PRT

<213> Homo sapiens

<400> 63

Val Pro Gly Ala Leu Ala Ile Ala  
1 5

<210> 64

<211> 8

<212> PRT

<213> Homo sapiens

<400> 64

Val Pro Gly Ala Leu Ala Leu Ala  
1 5

<210> 65

<211> 8

<212> PRT

- 27 -

<213> Homo sapiens

<400> 65

Val Pro Gly Ala Leu Ala Val Ala  
1 5

<210> 66

<211> 8

<212> PRT

<213> Homo sapiens

<400> 66

Val Pro Gly Ala Leu Ala Ala Ala  
1 5

<210> 67

<211> 8

<212> PRT

<213> Homo sapiens

<400> 67

Val Pro Gly Ala Leu Ala Ala Gly  
1 5

<210> 68

<211> 8

<212> PRT

<213> Homo sapiens

<400> 68

Val Pro Gly Ala Leu Ala Ala Ile  
1 5

<210> 69

<211> 8

<212> PRT

<213> Homo sapiens

<400> 69

Val Pro Gly Ala Leu Ala Ala Leu  
1 5

<210> 70

28

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 70

Val Pro Gly Ala Leu Ala Ala Val  
1 5

&lt;210&gt; 71

&lt;211&gt; 515

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 71

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe  
1 5 10 15Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Ala Leu Gly Pro  
20 25 30Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly  
35 40 45Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala  
50 55 60Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala  
65 70 75 80Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly  
85 90 95Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro  
100 105 110Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val  
115 120 125Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro  
130 135 140Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe  
145 150 155 160Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val  
165 170 175

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Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly  
 180                    185                    190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly  
 195                    200                    205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val  
 210                    215                    220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe  
 225                    230                    235                    240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val  
 245                    250                    255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val  
 260                    265                    270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala  
 275                    280                    285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly  
 290                    295                    300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val  
 305                    310                    315                    320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala  
 325                    330                    335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala  
 340                    345                    350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile  
 355                    360                    365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly  
 370                    375                    380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val  
 385                    390                    395                    400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln  
 405                    410                    415

Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala  
 420                    425                    430

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Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val  
 435                          440                          445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly  
 450                          455                          460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly  
 465                          470                          475                          480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly  
 485                          490                          495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala  
 500                          505                          510

Gln Leu Arg  
 515

<210> 72

<211> 49

<212> PRT

<213> Homo sapiens

<400> 72

Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val  
 1                          5                          10                          15

Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val  
 20                          25                          30

Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu Gly Val Arg  
 35                          40                          45

Arg

<210> 73

<211> 171

<212> PRT

<213> Homo sapiens

<400> 73

Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser  
 1                          5                          10                          15

Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly

-31-

20

25

30

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly  
 35 40 45

Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly  
 50 55 60

Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala  
 65 70 75 80

Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly  
 85 90 95

Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly  
 100 105 110

Ile Pro Pro Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly  
 115 120 125

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val  
 130 135 140

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala  
 145 150 155 160

Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys  
 165 170

&lt;210&gt; 74

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 74

Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val  
 1 5 10 15

Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val  
 20 25 30

Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala Leu Ala Ala  
 35 40 45

Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val Leu Gly Gly  
 50 55 60

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Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala  
65 70 75 80

Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala  
85 90 95

Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly  
100 105 110

Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala  
115 120 125

Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val  
130 135 140

Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro  
145 150 155 160

Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys  
165 170 175

Ala Cys Gly Arg Lys Arg Lys  
180